# MILITARY SPECIFICATION SHEET

# ELECTRON TUBES, RECEIVING

# TYPES 6V6Y AND 6V6GTY 1/

The complete requirements for procuring the electron tubes described herein shall consist of this document and the latest issue of Specification MIL-E-1.

This specification is mandatory for use by all Departments and Agencies of the Department of Defense.

# DESCRIPTION: Beam power pentode

Outline a --- 8-6 (EIA)

Outline b --- 9-11 or 9-41 (EIA)

Base a --- B-7-22 (low-loss phenolic)
Base b --- Low-loss phenolic (see note 1)

Envelope a --- MT8 Envelope b --- T9

Cathode a, b --- Coated unipotential

#### Base connections:

Pin No.	 1	2	3	4	5	7	8
Element a	 sh	h	a	<b>μ2</b>	gl	h	k, g3
Element b	 ne or	h	a	g2	gl	h	k, g3
	no pin						

# ABSOLUTE-MAXIMUM RATINGS:

Parameter: Unit: Maximum: Minimum:	a, b a, b	F.f V 6.9 5.7	Eb Vdc 350	Ec1 Vdc	Ec2 Vdc 310	Ik mAdc 65	Pp W 13. 2	Pg2 W 2. 2	Ehk v 100	All ft 10, 000	
TEST CONDITIONS:	a, b	6. 3	250	-12.5	250						

# GENERAL:

# Qualification - Required

(f) denotes changes

<sup>1/</sup> To identify those tests that are applicable to a given type or to several types; tube types are designated by letters.

7	YPE CONDITIONS	AQL (PERCENT	INSPECTION	SYMBOL	LIMI YS		LIMET
TYPE	THE CONDITIONS	(PERCENT DEFECTIVE)	LEVEL OR CODE	37=801	MIX	MAX	UNIT
a, b	, b See note 2	0. 65	11	lc1	0	-2.0	μAdc
a, b	, b	0. 65	11	По	33	57	mAdc
a, b	ı, b	0. 65	11	Ic2	0	7.5	mAdc
a, b	Class A amplifier; Esig · 8.8 Vac; Rp = 5,000 ohms	0. 65	11	Ро	3. 6		w
a, b	Esig = 280 mVac; Rp = 2,000 ohms (see note 3)	0. 65	п	EB			νu
a, b	Eb = Ec2 = Ec1 = 30 Vdc (see note 2)	0, 65	n	Įs	100		mAdc
a, b	, b	0. 4	п				
-							
a, b	Rp 2, 000 ohms	6.5	S3	Ep	 	500	mVac
a, b	, b	6.5	S3	п	410	490	mA.
a, b	, b	6.5	S3	Ihk		50	ьAdc
a, b	, b	6.5	S3	Sm	3,000	5, 200	μmhos
a b		$\left \right> 6.5$	Code E	Cgp Cin Cout	7. 9 5. 6	0. 9 11. 1 13. 5	pF pF pF
a	a	6.5	S3				
b	b	6.5	53				
a, b	, b See note 4	6.5	S3				
a, b	, b	4.0	S3		10		Meg
a, b	, b						
a, b	, b Group A; Eb Ec2 300 Vdc; Ec1 -20 Vdc; Ethk 100 V						
a, b	, b Power output			Po	2. 3		w
	٠.	a, b Power output	a, b Power output	a, b Power output	a, b Power output Po	a, b Power output Po 2.3	a, b Power output Po 2.3

# NOTES:

- 1. The base shall be one of the following: B6-81, B6-84, B7-7, or B7-59.
- 2. This test to be performed at the conclusion of the holding period.
- 3. The rejection level shall be set at the VU meter reading obtained during calibration.
- 4. This test applies for flexible leads as well as for rigid leads.

Custodians:

Army - EL Navy - EC

Air Force - 95

Review activities:

Army - EL, MU Navy - SH

Air Force - 11, 85

DSA - ES

User activities:

Army -

Navy - AS, OS, MC, CG

Air Force - 19

Preparing activity: Navy - EC

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